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Mr. Charles J. Bell is the trustee of the permanent fund.

It was further explained that the memorial association is not working under an agreement with any educational or other institution but that it desired the cooperation of all organizations and individuals interested in its purpose.

After full consideration the National Academy of Sciences unanimously adopted the following resolution:

*Resolved*, That the National Academy of Sciences give its approval to the general plan of the George Washington Memorial Association to collect funds for the purpose of erecting and maintaining in the city of Washington a building adapted for a meeting place of scientific organizations.

The Washington Academy of Sciences has had the matter under consideration for some time through its building committee. On April 20 its board of managers recommended active cooperation with the memorial association and at a meeting of the academy, April 24, the following resolutions were adopted:

*Resolved*, that, in the opinion of the Washington Academy of Sciences, the efforts of the George Washington Memorial Association to provide suitable facilities in the city of Washington for bringing together the national patriotic, scientific, educational, literary and art organizations that may need such accommodations, including the Washington Academy of Sciences and its affiliated societies, deserves commendation and support.

*Resolved*, that the academy considers it eminently desirable that we should commemorate the interest felt by our first president in science and the higher education, and that no better method can be found than to provide, in the city which bears his name, the capital of the nation, a suitable meeting place for all engaged in the advancement of the welfare of the human race.

*Resolved*, that the academy appoint a special committee to cooperate in this important movement by all practicable methods.

*Resolved*, that the academy recommends to each of the affiliated societies that it appoint a similar committee to cooperate with the committee of the academy.

The Washington Academy has appointed its building committee, Dr. George M. Kober, chairman, as its effective agency to take the matter up with the members of the academy

and affiliated societies and the citizens of Washington.

#### SCIENTIFIC NOTES AND NEWS

PROFESSOR GEORGE E. HALE, Mount Wilson; Professor Santiago Ramón y Cajal, Madrid; Professor Émile Picard, Paris, and Professor Hugo Kronecker, Berne, have been elected foreign members of the Royal Society.

THE following new members have been elected to the American Philosophical Society: Louis A. Bauer, William Howard Taft, Washington, D. C.; Marston Taylor Bogert, Hermon Carey Bumpus, Dr. Alexis Carrel, A. V. Williams Jackson, New York; Edwin Brant Frost, Williams Bay, Wis.; Robert Almer Harper, Charles Richard Van Hise, Madison, Wis.; William Herbert Hobbs, Victor Clarence Vaughan, Ann Arbor, Mich.; Abbott Lawrence Lowell, Boston; William Romaine Newbold, John Frederick Lewis, Charles Bingham Penrose, Philadelphia; Francis Darwin, Cambridge, England; Hermann Diels, Emil Fischer, Berlin; Friedrich Kohlrausch, Marburg; Wilhelm F. Ph. Pfeffer, Leipzig.

M. PIERRE TERMIER, professor of mineralogy in the Paris School of Mines, has been elected a member of the Paris Academy of Sciences in the place of the late M. Gaudry.

PROFESSOR WILHELM OSTWALD, the eminent chemist, has been awarded by the University of Christiania its first Cato M. Guldberg medal.

SUBSCRIPTIONS to the Charles W. Eliot fund have been received from about 2,050 graduates of Harvard University and others, and amount at this time to about \$130,000. The subscribers have sent subscriptions as follows: 858, \$5 and under; 500, \$10 to \$20; 418, \$25 to \$50; 189, \$100 to \$250; 58, \$250 to \$500; 31, \$1,000 to \$10,000. The committee hopes that the fund will amount to more than \$150,000 by May 10, when President Eliot retires. The subscriptions have been placed in the hands of trustees, to invest and hold for the benefit of President and Mrs. Eliot. The fund will eventually pass to Harvard University.

DR. EUGEN WOLF has been promoted to the directorship of the Senckenberg Museum of

Natural History at Frankfort, in succession to the late Dr. Roemer.

DR. PAUL POPPENHEIM has been appointed custodian in the Zoological Museum at Berlin.

MR. JOHN HEWITT, of Jesus College, Cambridge, has been appointed assistant for molluscs and fishes at the Transvaal Museum, Pretoria. For the last four years Mr. Hewitt has been curator of Rajah Brooke's Museum at Sarawak.

DR. RICHARD PRAGER, of Berlin, has been appointed head of the computing division, and Dr. Walter Zurhellen, of Bonn, head of the astrophotographic department in the Observatory of Santiago de Chile.

DR. EDWARD R. WALTERS has been appointed director of the Department of Health and Charities at Pittsburg.

PROFESSOR WILHELM HITTORF, the eminent physicist of Munich, has celebrated his eighty-fifth birthday.

DR. H. GRENACHER, professor of zoology at Halle, has retired from active service.

PROFESSOR A. LAWRENCE ROTCH, director of the Blue Hill Observatory, has returned from attending the International Aeronautical Commission at Monte Carlo.

DR. MAXIME BÔCHER, professor of mathematics at Harvard University, expects to spend the coming academic year abroad.

PROFESSOR H. E. CRAMPTON, of Columbia University and the American Museum of Natural History, will take his fourth voyage to the Society Islands this summer. Later he will go by way of Cook's Islands to New Zealand and the Samoan group via the Tonga Islands. He will return by way of the Fiji Islands and Hawaii, arriving home in January, 1910.

THE advanced students of geology at the University of Wisconsin left on April 30 for a ten days' trip through the iron and copper districts of Wisconsin, Minnesota and Michigan. Accompanied by Professors C. K. Leith, E. C. Holden and A. N. Winchell, they will be joined en route by Professor More, of Chicago, and a group of Chicago students; by Professors Mansfield, Cline and Sauer, of Northwestern and their students; and by a member

of the Canadian Geological Survey, Mr. Collins, of Ottawa, Canada. Starting from Duluth, the party will go through Tower and the Vermilion range; Biwabik and the Mesabi range; Carlton, Minn.; Houghton, Mich.; Ishpeming and the Marquette district, returning to Madison May 10.

PROFESSOR WM. A. LOCY, of Northwestern University, delivered the principal address before the Iowa State Academy of Science at Iowa City on the evening of April 30. His subject was "The Service of Zoology to Intellectual Progress."

DR. ALEXANDER GRAHAM BELL was announced to read on the evening of May 7 before the American Philosophical Society a paper on "Aerial Locomotion."

PROFESSOR WALTER R. CRANE, of the Pennsylvania State College, will read a paper on "The Use of Concrete in Mine Support" before the Institution of Mining Engineers meeting in London on May 28.

PROFESSOR GEORGE B. FRANKFORTER, dean of the college of chemistry at the University of Minnesota, lectured at the University of Wisconsin on April 30 on "Utilization of Waste Products from the Lumbering Industry."

PRESIDENT CHARLES R. VAN HISE, of the University of Wisconsin, has announced a course of instruction to be given next year in the geological department, on the conservation of natural resources. Dr. Van Hise's administrative duties have until now prevented his resuming teaching.

IN the fern herbarium of the New York Botanical Garden, which is now officially called the Underwood Fern Herbarium, a bronze tablet in his memory has been erected bearing the following inscription:

THE  
UNDERWOOD FERN HERBARIUM  
NAMED IN HONOR OF  
LUCIEN MARCUS UNDERWOOD  
1853-1907  
CHAIRMAN OF THE SCIENTIFIC DIRECTORS  
1901-1907

IN memory of the late Professor Mendeleef, it is proposed to establish in St. Petersburg a

Mendeleef Institution to contain chemical and physical laboratories and a museum.

DR. ALEXANDER KRAKAU, professor of electrochemistry at the University of St. Petersburg, died on March 29.

THE death is also announced of Professor F. E. Hulme, professor of mechanical drawing at King's College, London, and the author of several well-known books on wild flowers.

THE Society of German Chemists will hold its annual meeting at Frankfort from September 14 to 18.

UNDER the provisions of the program of administrative reform in preparation for constitutional government, the ministry of the Interior of the Chinese Empire has issued regulations governing the taking of a census of all Chinese, both at home and abroad. There will be a census of families and also of individuals. The former is to be completed in 1910 and the latter not later than 1912.

THE Academy of Science of St. Louis is bringing together an endowment fund of \$15,000, the income from which is to ensure continued publication of its long-established *Transactions*. To an invested fund of \$3,000 the council has added \$1,000 from the treasury and members have contributed an additional \$2,500. Of the remaining \$8,500, \$5,000 have already been subscribed.

OVER a ton and a quarter of rare earths has been presented to Professor Victor Lenher, of the department of chemistry of the University of Wisconsin, by the largest manufacturer of gas mantles in this country. The gift was made in recognition of the work on those substances which has been carried on for some years by Professor Lenher. The greatest quantity of monazite sand, which contains the rare earths in crude form, is found in North Carolina, the source of supply for all North American manufacture of gas mantles, as Brazil is the source for European manufacture. In the form of a by-product of gas mantle manufacture, the earths look like white flour, and it is in this form of oxalates that the 2,500 pounds given Professor Lenher

are stored in barrels in the chemistry building of the university. A number of graduate students at the university, under the direction of Professor Lenher, are devoting their efforts to various investigations of the rare earths. Three of these, Professor C. W. Stoddart, of the soils department of the agricultural college; Professor Raymond C. Benner, of the University of Arizona, who took his degree of master of arts at the University of Wisconsin in 1905; and Charles W. Hill, assistant in chemistry at the university, are at present making such investigations the subject of their dissertations for the doctor's degree.

ACCORDING to the *Westminster Gazette* the late Mr. John Murdock, who resided at Craiglockhart, in the county of Midlothian, by his will directed his trustees to employ the residue of his estate "in instituting and carrying on a scheme for the relief of indigent bachelors and widows, of whatever religious denomination or belief they may be, who have shown practical sympathy either as amateurs or professionals in the pursuit of science in any of its branches, whose lives have been characterized by sobriety, morality and industry, and who are not less than fifty-five years of age." The trustees notify that they are prepared to grant donations or pensions to persons "who have done something in the way of promoting or helping some branch of science" and who otherwise conform to the requirements of the trust.

WE are requested to state that the Royal Observatory of Belgium at Uccle is arranging to publish a list of the magnetic and seismological observatories of the world, together with a list of societies and reviews concerned with terrestrial magnetism, atmospheric electricity and seismology, and that information that will make these lists as complete as possible will be gladly received.

MR. J. H. GREGORY, '50, of Marblehead, has presented to Amherst College some 1,500 Indian implements, which include specimens from South Carolina, the Connecticut Valley and Marblehead. This collection consists largely of spears, arrowheads, hatchets and other implements of the southern Indians col-

lected by Mr. Gregory nearly fifty years ago, when he was a student at a theological seminary in South Carolina.

#### UNIVERSITY AND EDUCATIONAL NEWS

THE University of Washington, Seattle, will receive by appropriation of the state legislature the sum of \$673,000 for maintenance, for the biennium, 1909-11. Four permanent brick structures: an auditorium, a chemical laboratory, an engineering building, a power plant; and two semi-permanent structures: a library and forestry building will lapse to the university after being used by the Alaska-Yukon-Pacific Exposition, this summer.

MR. ANDREW CARNEGIE, in commemoration of twenty-five years' work in bacteriology and pathology done by the Carnegie Medical Laboratory of New York University, has given \$75,000 to the school. The money will be applied to the extension of the present Carnegie Laboratory building by an addition to it, which will face on First Avenue, the present building fronting on East Twenty-sixth street.

THE legislature of Nebraska in its recent session appropriated \$20,000 for the purchase of a new site in Omaha for the college of medicine of the University of Nebraska. The citizens of Omaha are to erect the buildings on the site thus obtained. The hall of mechanical engineering of the university is approaching completion and will be ready for occupancy in September. At a recent meeting of the regents the sum of \$50,000 was set aside for equipment. The regents are taking steps to locate two additional experiment sub-stations, as provided by the recent legislature. One of these is to be in the "Sandhill Region" of central Nebraska, and the other in the "Irrigation Region" of the western part of the state. They are contemplating considerable additions to the campus by the purchase of adjacent property. This has been made necessary by the present overcrowded condition of the campus. The tuition fees hitherto required of graduate students who are not residents of the state have been abolished.

THE Boston *Evening Transcript* states that plans are maturing for the establishment of a medical school in China. The promoters are Harvard men who intend to go to China at the expiration of their hospital appointments, having definite invitations from his excellency the viceroy of the Kiang Soo province. An endowment fund will be raised to be held by a board of trustees in this country, incorporated to direct the financial affairs of the institution. President Charles W. Eliot, of Harvard, has consented to serve as chairman of this board, and his associate trustees will be Dr. H. P. Walcott, Dr. A. T. Cabot, Dr. W. T. Councilman, Dr. W. B. Cannon, Dean H. A. Christian and Professor E. C. Moore. These are the men who intend to go: Drs. J. P. Leake, W. S. Whittemore, W. H. Hitlner, I. Hartshorn, C. C. Haskell, M. R. Edwards, A. L. Patch, A. M. Dunlap, G. P. Gaunt and C. A. Hedblom.

A DESPATCH from Denver to the daily papers says: "Differences between the members of the faculty and the board of trustees of Westminster University, Denver, Col., a Presbyterian institution, arising out of a general reduction of instructors' salaries, have resulted in the dismissal of President Joseph L. Weaver and the entire faculty. The reduction caused President Weaver and the faculty to bring suit for back pay, and the dismissal followed."

DR. WILLIAM A. SHANKLIN will be inaugurated as president of Wesleyan University on October 29. He will, however, assume the duties of the office after the close of the present academic year.

DR. CHARLES E. BESSEY, who has been for many years the dean of the industrial college of the University of Nebraska, has been promoted to be head dean of the university. He is chairman of the board of deans, and becomes the acting chancellor whenever the chancellor is absent or indisposed.

MR. C. T. BRUES, curator of invertebrate zoology in the Milwaukee Public Museum, Milwaukee, Wis., has been appointed instructor in economic entomology at the Bussey Institution of Harvard University.